

Attorney's Docket No. 34848/234243

IDS/ #5  
JL 5/3  
PATENT  
jc872 U.S. PTO  
09/973318  
10/09/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Roberts et al.  
Appl. No.: To Be Assigned  
Filed: Concurrently Herewith  
For: THIOESTER POLYMER DERIVATIVES AND METHOD OF MODIFYING  
THE N-TERMINUS OF A POLYPEPTIDE THEREWITH  
Group Art Unit: To Be Assigned  
Examiner: To Be Assigned

October 9, 2001


Box Patent Application  
Commissioner for Patents  
Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT  
CITATION UNDER 37 C.F.R. § 1.97**

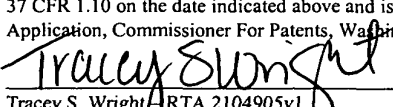
Sir:

Attached is a list of documents on form PTO-1449 together with a copy of each identified document. It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead submitting the listed documents for the sake of full disclosure.

Respectfully submitted,

  
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<p>"Express Mail" Mailing Label Number EL 780615945 US Date of Deposit: October 9, 2001</p> <p>I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Box Patent Application, Commissioner For Patents, Washington, DC 20231.</p> <p> Tracey S. Wright RTA 2104905v1</p>	<p><u>CERTIFICATE OF MAILING</u></p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner For Patents, Washington, DC 20231, on October 9, 2001.</p>
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>				
				Application Number		To Be Assigned		
				Filing Date		Concurrently Herewith		
				First Named Inventor		Roberts <i>et al.</i>		
				Group Art Unit		To Be Assigned		
Examiner Name		To Be Assigned						
Sheet	1	of	2	Attorney Docket Number		34848/234243		
<b>U. S. PATENT DOCUMENTS</b>								
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number		Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant Of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear	
	1	6,184,344			Kent <i>et al.</i>	02-06-2001	Whole Document	
	2	6,057,292			Cunningham <i>et al.</i>	05-02-2000	Whole Document	
	3	5,985,265			Kinstler <i>et al.</i>	11-16-1999	Whole Document	
	4	5,932,462			Harris <i>et al.</i>	08-03-1999	Whole Document	
	5	5,824,784			Kinstler <i>et al.</i>	10-20-1998	Whole Document	
	6	5,766,897			Braxton	06-16-1998	Whole Document	
	7	5,252,714			Harris <i>et al.</i>	10-12-1993	Whole Document	
	8	5,206,344			Katre <i>et al.</i>	04-27-1993	Whole Document	
	9	4,904,584			Shaw	02-27-1990	Whole Document	
	10	4,670,417			Iwasaki <i>et al.</i>	06-02-1987	Whole Document	
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initials	Cite No.	Foreign Patent Document Office <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) <sup>5</sup>			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	11	WO	99/67291		IMMUNEX CORPORATION	12-29-1999	Whole Document	
	12	WO	99/45026		CHIRON CORPORATION	09-10-1999	Whole Document	
	13	WO	99/24472		IMMUNOMEDICS, INC.	05-20-1999	Whole Document	
	14	WO	99/03887		BOLDER BIOTECHNOLOGY, INC.	01-28-1999	Whole Document	
	15	WO	98/35026		NOVO NORDISK A/S	08-13-1998	Whole Document	
	16	WO	96/41813		OFFORD	12-27-1996	Whole Document	
Examiner Signature						Date Considered		

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number.

<sup>2</sup> See attached Kinds of U.S. Patent Documents.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup> Applicant is to place an "X" here if English language Translation is attached.

JCS72 U.S. PTO  
 09/973318  
 10/09/01

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	To Be Assigned
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				Group Art Unit	To Be Assigned
				Examiner Name	To Be Assigned
Sheet	2	Of	2	Attorney Docket Number	34848/234243

<b>NON PATENT LITERATURE DOCUMENTS</b>
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Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	17	AYERS, <i>et al.</i> , "Introduction of Unnatural Amino Acids into Proteins Using Expressed Protein Ligation", <i>Biopolymers (Peptide Science)</i> , 1999, pp. 343-354, Vol. 51.	
	18	CLIPPINGDALE, <i>et al.</i> , "Peptide Thioester Preparation by Fmoc Solid Phase Peptide Synthesis for Use in Native Chemical Ligation", <i>J. Peptide Sci.</i> , 2000, pp. 225-234, Vol. 6, European Peptide Society and John Wiley & Sons, Ltd.	
	19	DAWSON, <i>et al.</i> , "Synthesis of Proteins by Native Chemical Ligation", <i>Science</i> , 1994, pp. 776-779, Vol. 266.	
	20	HACKENG, <i>et al.</i> , "Protein Synthesis by Native Chemical Ligation: Expanded Scope by Using Straightforward Methodology", <i>Proc. Natl. Acad. Sci. USA</i> , 1999, pp. 10068-10073, Vol. 96.	
	21	HANSEN, <i>et al.</i> , "Attachment of Antibodies to Sterically Stabilized Liposomes: Evaluation, Comparison and Optimization of Coupling Procedures", <i>Biochimica et Biophysica Acta</i> 1239, 1995, pp. 133-144.	
	22	HERSHFIELD <i>et al.</i> , "Use of Site-Directed Mutagenesis to Enhance the Epitope-Shielding Effect of Covalent Modification of Proteins with Polyethylene Glycol", <i>Proc. Natl. Acad. Sci. USA</i> , 1991, pp. 7185-7189, Vol. 88.	
	23	TAM, <i>et al.</i> , "Peptide Synthesis Using Unprotected Peptides Through Orthogonal Coupling Methods", <i>Proc. Natl. Acad. Sci. USA</i> , 1995, pp. 12485-12489, Vol. 92.	
	24	TAM, <i>et al.</i> , "Orthogonal Ligation Strategies for Peptide and Protein", <i>Biopolymers (Peptide Science)</i> , 1999, pp. 311-332, Vol. 51, John Wiley & Sons, Inc.	
	25	ZALIPSKY <i>et al.</i> , "Facile Synthesis of $\alpha$ -Hydroxy- $\omega$ -Carboxymethylpolyethylene Oxide", <i>Journal of Bioactive and Compatible Polymers</i> , 1990, pp. 227-231, Vol. 5.	
	26	ZALIPSKY, "Synthesis of an End-Group Functionalized Polyethylene Glycol-Lipid Conjugate for Preparation of Polymer-Grafted Liposomes", <i>Bioconjugate Chem.</i> , 1993, pp. 296-299, Vol. 4.	
	27	ZALIPSKY <i>et al.</i> , "Hydrazide Derivatives of Poly(ethylene glycol) and Their Bioconjugates", <i>American Chemical Society</i> , 1997, pp. 318-340.	

Examiner Signature		Date Considered	
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. RTA 2104906v1